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Headquarters, Joint Task Force SEVEN
APO 437, San Francisco, California
15 July 1958

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Operation Order 39-58 (PISONIA Event)

1. SITUATION

- a. Information and instructions contained herein supplement JTF SEVEN Operation Order 1-58, dated 1 October 1957, with changes thereto.
- b. PISONIA will be detonated on a barge off YVONNE Island in the ENIWETOK Atoll. The date and time of detonation will be announced later.
- c. All personnel except those authorized to man stations at BRUCE will be located on FRED, ELMER and DAVID Islands. See Appendix 39 attached for evacuation instructions.
- d. Post-shot cloud sampling, radar cloud tracking, radsafe re-entry reconnaissance and barrier patrols will be necessary. Search of the hazardous area will commence on D-2. Search areas will be delineated by this Headquarters on D-3 and D-2.
- e. The overpressures, thermal energy and wave heights resulting from PISONIA at Sites BRUCE, DAVID, ELMER and FRED are expected to approach but not exceed the following values:

| <u>SITE</u> | <u>OVERPRESSURE (PSI)</u> | <u>CAL/CM²</u> | <u>WAVE HEIGHT</u> |
|-------------------------|---------------------------|---------------------------|--------------------|
| BRUCE | | | Negligible |
| DAVID | | | Negligible |
| ELMER (Air strip) | | | Negligible |
| FRED (Control tower) | | | Negligible |

SPECIFIC INSTRUCTIONS

a. TG 7.1

Position the PISONIA device on a barge off YVONNE Island in the ENIWETOK Atoll.

b. TG 7.4

- (1) Provide cloud sampling aircraft as required.
- (2) Pass radsafe information obtained from cloud sampling aircraft to JTF SEVEN RadSafe Office.
- (3) Report to CJTF SEVEN, at H minus 20 minutes, the percentage of assigned cloud sampling missions expected to be accomplished.

3. GENERAL INSTRUCTIONS

- a. All personnel located at ENIWETOK Atoll are within viewing distance of the PISONIA fireball and consequently are susceptible to eye damage. Therefore, all personnel who are not supplied with protective goggles will turn away from the detonation point and close their eyes during time of burst. At least ten seconds should be allowed before looking at the burst.

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b. The JTF SEVEN CHECK LIST - BIKINI and ENIWETOK EVENTS, dated 10 May 1958, is changed as follows for PISONIA Event:

(1) Delete the following items: 5, 6, 11, 13, 14, 15, 33, 38, 39 and 42.

(2) Change the following items to read as indicated below:

| ITEM | DAY | HOOR | EVENT | ACTION |
|------|-------|-------|--|---|
| 10. | Same | Same | CJTF-7 passes instructions to CTG 7.3 concerning Radsafe barrier patrol flight in the vicinity of the shot site. | Ensure that these instructions are passed to TG 7.3. (RadSafe is resp.) |
| 16. | D-Day | Early | Same | Same |
| 22. | D-1 | 2030 | Same | Same |
| 23. | D-1 | 1900 | Same | Same |
| 34. | Same | Same | TG 7.1 commence radsafe and damage survey. | RadSafe Off monitors this event. |

(3) Add the following item to read as indicated below:

| ITEM | DAY | HOOR | EVENT | ACTION |
|------|-------|---------|---|--|
| 8a. | D-1 | 1500 | CJTF-7 submit air hazard area to CAA. | Ensure that advisory is dispatched. (RadSafe is resp.) |
| 26a. | D-Day | H-20min | CTG 7.4 reports readiness to accomplish cloud sampling. | TG 7.4 reports percent of readiness. |

4. COMMAND

a. Command of the operation will be exercised by CJTF SEVEN from the JTF SEVEN Command Post on ELMER Island.

b. Task Group Command Post locations:

- (1) CTG 7.1 ELMER Island.
- (2) CTG 7.2 FRED Island.
- (3) CTG 7.3 ELMER Island.
- (4) CTG 7.4 FRED Island.
- (5) CTG 7.5 ELMER Island.

5. COMMUNICATIONS

a. The frequencies authorized for use during PISONIA are listed in Annex A attached hereto. Circuits and frequencies listed in paragraph 1 may operate without restriction with the following exceptions:

Headquarters Joint Task Force SEVEN
APO 437, San Francisco, California
26 June 1958

Annex A to Joint Task Force SEVEN OpnO 39-58 (PISONIA EVENT)
FREQUENCY PLAN-PISONIA EVENT

1. The following circuits and frequencies are authorized to operate during the "Radio Silence" period from H-3 to H+2 minutes for PISONIA EVENT:

| <u>"J"</u> | <u>FREQUENCY</u> | <u>PROJ OR TG</u> | <u>TX LOCATION</u> | <u>REMARKS</u> |
|---------------|--|---|--|--|
| J-101 | 906 mc 952 mc | TG 7.5 " " | NAN ELMER | Tropo " |
| J-122 | 1285 mc | WADC | NAN | AN/SPS-6 |
| J-133.3 .7 | 153.89 mc 158.51 mc | TG 7.1 TU-5 | ELMER ELMER | Count-down Radio Time #2 |
| J-141 | 217 mc 225 mc | LASL " | ZERO SITE " " | (Diagnostic Telemeter) |
| J-145.1 | 164.375 mc 170.725 mc | TG 7.1 " " | ELMER " | (Command (Base) " (Mobile) |
| J-145.3 | 164.225 mc 167.825 mc | TU-1 " | ELMER " | TU-1 (Base) " (Mobile) |
| J-147.1 | 2700-2900 mc | Proj 5.1 | FRED | AN/MSQ-1A |
| J-152 | 995 mc 1058 mc | NASWF " | FRED Acft | (TACAN ((to be used only in case of fail- ure of TG 7.4 (set))) |
| J-158 | 9375 mc | TG 7.1, 7.4 | Acft | Sec Position |
| J-174.1 .2 | 153.89 mc 243.0 mc | TG 7.1 " " | ELMER " | Count-down " " |
| J-184.2 | 3850 ± 50 mc 4050 ± 50 mc | Proj 34.1 " " | ZERO SITE " " | (Diagnostic Telemeter) |
| J-185 | 9375 mc | TU-5 | ELMER | Wx Radar |
| J-188 | 9085 mc 9110 mc 9135 mc 9160 mc 9185 mc 9210 mc 9235 mc 9260 mc | Proj 5.2 " " Proj 5.3 " " " " " " Proj 5.2 " " | FRED Acft FRED Acft FRED Acft FRED Acft | Mk 33 Radar Beacon Mk 33 Radar Beacon Mk 33 Radar Beacon Mk 33 Radar Beacon |

| <u>id#</u> | <u>FREQUENCY</u> | <u>PROJ OR TG</u> | <u>TX LOCATION</u> | <u>REMARKS</u> |
|---|------------------|-------------------|--------------------|----------------|
| J-196.1 | 9317 ± 87 mc | Proj 6.6 | FRED | AN/CPS-9 |
| .2 | " " | " " | KWAJALEIN | " |
| .3 | " " | " " | RONGELAP | " |
| J-232 | 1895 mc | TG 7.2 | FRED. DAVID | Microwave |
| | 1855 mc | TG 7.5 | ELMER | " |
| J-315 | 300.5 mc | TG 7.5 | NAN | AN/TRC Ciphony |
| | 322.5 mc | TG 7.3 | BOXER | " |
| J-328 | 302.5 mc | TG 7.5 | NAN | (AN/TRC to |
| | 304.5 mc | " " | " | ships |
| | 324.5 mc | TG 7.5 | AINSWORTH | AN/TRC to NAN |
| | 326.5 mc | TG 7.3 | BOXER | AN/TRC to NAN |
| J-418.2 | 2780-2820 mc | TG 7.4 | FRED | GCA Search |
| | 9000-9160 mc | " " | " | GCA Approach |
| J-420.4 | 352 kc | TG 7.4 | KAPINGAMARANGI | LF Homer |
| .5 | 308 kc | " " | KUSAIE | " |
| .6 | 330 kc | " " | UTERIK | " |
| J-421 | 1012 mc | TG 7.4 | FRED | TACAN |
| | 1077 mc | " " | Acft | " |
| J-422 | 1030 mc | TG 7.4 | FRED | IFF |
| | 1090 mc | " " | Acft | " |
| J-428 | 249.8 mc | TG 7.1, 7.4 | FRED & ACFT | (Spec Control |
| | 269.8 mc | " " | " " | (Silence H-5 |
| | 282.8 mc | " " | " " | (sec to "H" |
| | 299.6 mc | " " | " " | " " |
| | 310.6 mc | " " | " " | " " |
| | 320.2 mc | " " | " " | " " |
| | 325.6 mc | " " | " " | " " |
| | 352.2 mc | " " | " " | " " |
| | 353.0 mc | " " | " " | " " |
| | 355.4 mc | " " | " " | " " |
| | 369.8 mc | " " | " " | " " |
| | 373.8 mc | " " | " " | " " |
| | 381.8 mc | " " | " " | " " |
| | 386.6 mc | " " | " " | " " |
| | 387.4 mc | " " | " " | " " |
| (NOTE: Exact frequency plan to be derived jointly by TG 7.1 and TG 7.4) | | | | |
| J-446.2 | 243.0 mc | TG 7.4 | Weather Is. | " |
| | 238.4 mc | " " | " " | " |

2. The following circuits and frequencies are authorized to operate during the "silent period" only in case of emergency or urgent necessity:

| | | | |
|-------|------------------------|-------------|-------------------------|
| J-115 | 52.1 mc | TG 7.5 | Boat Pool, ELMER-NAN |
| J-159 | 143.10 mc 149.40 mc | TU-3 | Air/Ground |
| J-221 | 41.9, 43.5 mc | TG 7.2, 7.5 | Military Police |

| <u>"J"</u> | <u>FREQUENCY</u> | <u>PROJ OR TG</u> | <u>TX LOCATION</u> | <u>REMARKS</u> |
|------------|--|-------------------|------------------------------------|--------------------------------------|
| J-301 | 277.8 mc 644.5 kc 274.4 kc 547.5 kc | TG 7.3 | Tactical | |
| J-303 | 4062 kc 9117.5 kc | TG 7.3 | Ship-Shore | |
| J-309 | 500 kc | All | Distress | |
| J-310 | 3023.5 kc | All | Search & Rescue | |
| J-311 | 121.5 mc 243.0 mc | All | Distress | |
| J-319A | 5725.5 kc 9009.5 kc | TG 7.3 | Airt Control & Report | |
| J-326 | 52.8 mc 51.6 mc 54.4 mc | TG 7.5, 7.3 | Boats in distress | |
| J-327 | 236.6 mc | TG 7.3 | Helicopters in distress, BIKINI | |
| J-331 | 52.4 mc | TG 7.3 | RADSAFE | |
| J-412 | 173.575 mc | TG 7.4 | Fire-Crash | |
| J-417 | 236.6, 257.0 mc 275.8, 243.0 mc 126.18, 121.5 mc | TG 7.4 | Emergencies only | |
| J-432 | 165.125 mc | TG 7.4 | Main Expeditor | |
| J-439 | 3247.5 kc 5145.0 kc 9062.5 kc 3340.0 kc 5227.0 kc 6780.0 kc 9270.0 kc 14,422.5 kc | TG 7.4 | FRED | Microbarograph readings at H+2 |

| <u>"J"</u> | <u>FREQUENCY</u> | <u>PROJ CR TG</u> | <u>TX LOCATION</u> | <u>REMARKS</u> |
|------------|----------------------------------|-------------------|---------------------|----------------|
| J-445 | 236.6 mc 243.0 mc 363.8 mc | TG 7.4 | Aoft in distress | NAN Tower |

3. Circuits and frequencies not specifically designated in paragrapas 1 or 2 will not be used during the "silent period". Where transmitters may be keyed accidentally, action will be taken to disable the transmitters during the "silent period".

OFFICIAL:

BR Peterson MAJ.

for HUGH A. VEST
Colonel GS
ACofS J-5

A. R. LUEDECKE
Major General, USAF
Commander

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Headquarters, Joint Task Force SEVEN
APO 437, San Francisco, California
15 July 1958

APPENDIX 39 to ANNEX N, EMERGENCY AND ROUTINE EVACUATION RE-ENTRY PLAN TO
JTF SEVEN OPERATION ORDER 1-58, dated 1 October 1957

1. Musters will be conducted at ENIWETOK and BIKINI Atolls for the PISONIA Event. A muster status report will be required at 1900 on D-1. Final reports will be made by Task Group Commanders as soon as evacuation or accounting of personnel of the Task Groups has been completed.
2. Task Group Commanders and the Headquarters, JTF SEVEN, Evacuation Officer will advise the JTF SEVEN Evacuation Officer regarding safety of personnel at H plus 20 minutes.
3. Re-entry hour will be established by CJTF SEVEN.
4. Allocation of ship space in the event of emergency evacuation will be contained in CTG 7.3 Operation Order for this event.

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